



US Army Corps  
of Engineers®



## Lorain Harbor, OH

### Harbor Features

- Located on Lake Erie in the City of Lorain, Lorain County, OH
- Authorization: Rivers & Harbor Acts of 1899, 1907, 1910, 1918, 1930, 1935, 1945, 1960, 1965, and the Water Resources Development Act of 1986
- Deep draft commercial harbor
- Project depths are 29 feet in the entrance channel, 28 feet in the outer harbor, 25 feet in the eastern and western outer harbor areas, 27 feet in the Black River Channel, 17 to 21 feet in the turning basins.
- 792K tons of material shipped and received in 2019
- Ranked 35<sup>th</sup> among Great Lakes harbors in 2019
- Interconnected with 9 commercial ports: ships to 1 port and receives from 8 ports
- Over 2.5 miles of breakwater structures
- 60-acre outer harbor and 2.6 miles of federal channel on the Black River
- A confined disposal facility (CDF) is located at the eastern end of the harbor.
- Major stakeholders: the Lorain Port Authority, private marinas, U.S. Coast Guard, American Metal Chemical Corp., Jonick Dock & Terminal, Republic Steel, IGR Henderson, and Terminal Ready Mix Inc.

### Project Requirements

- The harbor requires dredging of approximately 75,000 cubic yards of material every year to maintain the navigation channel. The harbor was last dredged in 2019 when 475,000 cubic yards of material were removed. Maintenance dredging is planned for 2021.



- Sections of the west and outer breakwaters are deteriorating. Engineering, design and construction of repairs is required to ensure the harbor is adequately protected.
- Fill management is needed to maximize the available capacity at the confined disposal facility through strategic fill placement, vegetation control, dewatering activities, and raising top elevation of interior and/or exterior berms.

### Consequences of Not Maintaining the Project

- Light loading: loss of between 2 and 3 feet of channel depth will result in increased transportation costs of between \$122,000 and \$231,000 annually.
- Closing the harbor to commercial traffic will require commodities to be transported by rail and truck. This may increase annual emission rates by over 6,709 tons of harmful particulate matter (PM-10) and increase costs by an estimated \$1,502,000 due to increased railroad-related accidents and an estimated \$1,003,000 due to increased trucking-related accidents.

### **Transportation Importance**

- Major receiving and shipping port on the Great Lakes and a critical harbor of refuge
- Major commodities shipped or received include limestone, coal, petroleum coke, sand, and slag.
- Waterborne transportation facilitated by the harbor supports \$38.4M in business revenue, 169 direct, indirect, and induced jobs, and \$12.9M in labor income to the transportation sector.
- Commodities handled by the harbor support \$438.7M in business revenue, 2,388 direct, indirect, and induced jobs, and \$123.4M in labor income.

### **U.S. Army Corps of Engineers Fiscal Year (FY) 2021, 2022, and 2023 Lorain Harbor, OH — Project Requirements and President's Budget (\$1,000)**

<b>Work Package</b>	<b>FY21 Requirement</b>	<b>FY21 Appropriation</b>	<b>FY22 Requirement</b>	<b>FY22 President's Budget</b>	<b>FY23 Requirement</b>	<b>FY23 President's Budget</b>
Maintenance Dredging – Primary Work Package	1,694	1,694	800	813	952	0
Additional State Requirements for Dredged Material Placement	245	0	1,259	1,246	1,418	0
Sediment Sampling & Analysis	0	0	0	0	0	0
Engineering, Design and Construction Outer Breakwater Repair	10,000	0	10,000	0	0	0
CDF Fill Management, Berm Raising	0	0	5,000	0	0	0
Dredged Material Management Plan	0	0	0	0	0	0
Environmental Compliance Management - Confined Disposal Facility Five Year External Assessment	0	0	0	0	6	0
Economic and Environmental Evaluation	150	0	150	0	0	0
Real Estate Management	8	8	8	8	8	0
Engineering, Design and Construction West Breakwater	250	0	15,000	250	0	0
<b>TOTAL</b>	<b>12,347</b>	<b>1,702</b>	<b>32,467</b>	<b>2,317</b>	<b>2,384</b>	<b>TBD</b>

### **Congressional Interests**

- Representative Marcy Kaptur D-OH-9
- Senator Sherrod Brown D-OH
- Senator Rob Portman R-OH